



It is an objective of the State of California to achieve a drug-free State workplace. Any applicant for State employment will be expected to behave in accordance with this objective because the use of illegal drugs is inconsistent with the law of the State, the rules governing civil service and the special trust placed in public servants.

**ASSOCIATE HYDROELECTRIC POWER UTILITY ENGINEER
OPEN/NON-PROMOTIONAL
CONTINUOUS**

CONTINUOUS TESTING Revised application forms (STD 678 Rev. 10/2013) may be postmarked or submitted in person, on a continuous basis.
FAXED APPLICATIONS WILL NOT BE ACCEPTED.

WHO SHOULD APPLY This is an open examination. Candidates who meet the Minimum Qualifications, as stated below, may apply for this examination.

Submit the completed Examination Application by mail or in person.

MAILING ADDRESS:

OR

SUBMIT IN PERSON:

Department of Water Resources

P.O. Box 942836

Sacramento, CA 94236-0001

Department of Water Resources

1416 9th Street, Room 320

Sacramento, CA 95814

DO NOT SEND APPLICATIONS TO CALIFORNIA DEPARTMENT OF HUMAN RESOURCES (CalHR) OR DEPARTMENT OF WATER RESOURCES' (DWR) FIELD OFFICES. Applications are available at Department of Water Resources' (DWR) offices, the DWR website: www.water.ca.gov/jobs/currentexams.cfm, local office of the Employment Development Department and (CalHR) at: www.jobs.ca.gov and click "My Profile".

IDENTIFICATION REQUIRED	Accepted applicants are required to bring either a photo identification card or two forms of signed identification to each phase of the examination.
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SPECIAL TESTING ARRANGEMENTS If you have a disability and need special testing arrangements, mark the appropriate box in Question 2 of the “Examination Application”. You will be contacted to make specific arrangements.

SALARY RANGE	\$6898 - 8629
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ELIGIBLE LIST INFORMATION	A departmental open/non-promotional eligible list will be established for the Department of Water Resources. The names of successful competitors will be merged onto the list in order of final scores, regardless of test date. Eligibility expires 18 months after it is established. Competitors must then retest to re-establish eligibility.
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TESTING PERIOD Competitors can test only once during a 12-month period.

REQUIREMENTS FOR ADMITTANCE

Qualifying experience may be combined on a proportionate basis if the requirements stated below include more than one pattern and are distinguished as "Either" I, "or" II. For example, candidates who possess qualifying experience amounting to 50% of the required time of Pattern I, and additional experience amounting to 50% of the required time of Pattern II, may be admitted to an examination as meeting 100% of the overall experience requirement.

Graduation from college with major work in electrical, electronic, mechanical, or civil engineering. (Additional qualifying experience may be substituted for the required education on a year-for-year basis.) **AND**

Either I

Two years of engineering experience in the electric utilities field and/or in the operation and maintenance of pumping and generating equipment at the Electrical Engineer, Range B, or Mechanical Engineer, Range B, level in California State Service.

Or II

Three years of engineering experience in the electric utilities field and/or in the operation and maintenance of pumping and generating equipment, at least two years of which shall have been comparable in responsibility to that of an Electrical Engineer, Range B, or Mechanical Engineer, Range B, in California State Service.

POSITION DESCRIPTION The Associate Hydroelectric Power Utility Engineer is the full journey level. Under direction, incumbents perform difficult engineering work relating to the electric utilities field and/or operation and maintenance of pumping and generating equipment, and other related work.

Positions exist statewide with the Department of Water Resources.

EXAMINATION INFORMATION	This examination will consist of Qualification Appraisal Interview – Weighted 100% . In order to obtain a position on the eligible list, a minimum rating of 70% must be attained. COMPETITORS WHO DO NOT APPEAR FOR THE INTERVIEW WILL BE DISQUALIFIED.
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SEE REVERSE SIDE FOR ADDITIONAL INFORMATION

SCOPE OF EXAMINATION	Qualifications Appraisal Interview – Weighted 100%
	<p>In addition to evaluating the competitors’ relative abilities as demonstrated by quality and breadth of experience, emphasis in the examining interview will be on measuring competitively, relative to job demands, each competitor’s:</p> <p>A. Knowledge of:</p> <ol style="list-style-type: none">1. Engineering theory and practices relating to power generation, transmission, distribution, and marketing.2. Electric utility operation and management.3. Functions, responsibilities, and procedures of regulatory and government agencies including the Public Utilities Commission, the Federal Energy Regulatory Commission, and the California Energy Commission, in the electric utility field.4. Planning, design, construction, and operation of major generating plants, power transmission systems and pumping plants.5. Methods of determining the optimum capacity and energy output of generating plants.6. Power marketing and economics, including the market for and value of electric power, methods of marketing power and rates agreements.7. Operating, maintaining and testing of electrical and mechanical equipment and systems for plants, switchyards, reservoir outlets and aqueduct control features.8. Environmental issues and policies.9. Unit operating and loading procedures and criteria.10. Standards of the American National Standards Institute, Institute of Electrical and Electronic Engineers and American Society of Mechanical Engineers.11. Instrumentation and control circuitry and electrical protection; servo systems and governors; bearings; lubrication; metal working; machining and welding; nondestructive examination.12. Alignment and balancing of rotating machinery including vibration measurement.13. Methods of maintenance, repair and testing.14. Power system operation and control.15. Power system studies, load flow, stability, and fault analyses. <p>B. Ability to:</p> <ol style="list-style-type: none">1. Analyze situations accurately and adopt an effective course of action.2. Prepare clear and concise reports.3. Prepare procedures and manuals.4. Make feasibility studies.5. Interpret, prepare and revise electrical and mechanical drawings and schematics and relay control logic diagrams.6. Assist and advise others on maintenance, repair, procedures, materials, tools.7. Negotiate, administer, and coordinate contracts such as for maintenance, repair, testing, and consultation.8. Conduct and coordinate special test activities.9. Use personal computers
ADDITIONAL DESIRABLE QUALIFICATIONS	Possession of a valid certificate of registration as a professional engineer.
CAREER CREDITS	Career credits will be granted in this examination
VETERANS PREFERENCE	<u>Assembly Bill 372</u> signed into law by Governor Brown on August 12, 2013, changes the way the Veterans Preference process is administered by the State of California. Veterans Preference will be awarded as follows, starting on January 1, 2014: 1) Any veteran, widow or widower of a veteran, or spouse of a 100 percent disabled veteran, who achieves a passing score in an entrance examination, shall be ranked in the top rank of the resulting eligibility list. Any veteran who has been dishonorably discharged or released is not eligible for Veterans Preference. 2) An entrance exam is defined, under law, as any open competitive examination. 3) Veterans Preference is not granted once a person achieves permanent civil service status.

GENERAL INFORMATION

The Department of Water Resources reserves the right to revise the examination plan to better meet the needs of the service if the circumstances under which this examination was planned change. Such revision will be in accordance with civil service laws and rules and all competitors will be notified.

For any examination without a written feature it is the candidate's responsibility to contact the Selection Services Section of the Department of Water Resources, (916) 653-4838, three weeks after the final filing date if he/she has not received a progress notice.

Applications are available at Department of Water Resources’ (DWR) offices, the DWR website: www.water.ca.gov/jobs/currentexams.cfm, local office of the Employment Development Department, California Human Resources (CalHR),and the CalHR website at: www.jobs.ca.gov, and click “My Profile”.

If you meet the requirements stated on the reverse, you may take this examination, which is competitive. Possession of the entrance requirement does not assure a place on the eligible list. All candidates who pass will be ranked according to their scores.

General Qualifications: Candidates must possess essential personal qualifications including integrity, initiative, dependability, good judgment, and ability to work cooperatively with others; and a state of health consistent with the ability to perform the assigned duties of the classification.

Examination Locations: When a written test is part of the examination, it will be given in such places in California as the number of candidates and conditions warrant. Ordinarily, qualifications appraisal interviews are scheduled in Sacramento and Los Angeles. However, locations of interviews may be limited or extended as conditions warrant.

If a candidate’s notice of oral interview fails to reach him/her prior to the day of the interview due to a verified postal error, he/she will be rescheduled upon written request.

Eligible Lists: Eligible lists established by competitive examination, regardless of date, must be used in the following order: 1) subdivisional promotional, 2) departmental promotional, 3) multidepartment promotional, 4) service wide promotional, 5) departmental open, 6) open eligible list. When there are two lists of the same kind, the older must be used first. Eligible lists will expire in one to four years unless otherwise stated on this bulletin. In the case of continuous testing examinations, names are merged into the appropriate lists in order of final test scores (except as modified by veterans preference) regardless of the date of the test, and the resulting eligible lists will be used only to fill vacancies in the area shown on the bulletin.

How to apply for Veterans Preference: The California Department of Human Resources (CalHR) has information on how to apply for Veterans Preference on their website at www.jobs.ca.gov and on the Application for Veterans Preference form (CalHR 1093). Additional information is also available at the Department of Veterans Affairs website at www.cdva.ca.gov.

Devices for Communications Impairment

TDD is Telecommunications Device for the Deaf and is reachable only from phones equipped with a TDD Device. **California Relay Telephone Service** for the Deaf or hearing impaired: From TDD phones: 1-800-735-2929; From Voice phones: 1-800-735-2922.

For information regarding this examination, please contact Rochelle Johnson at (916) 653-6330.